



## HIRSCHMANN MOBILITY

**ORBCOMM/**

**GPS**

**Screw Antenna**

**OG RD S/Series**

**Part Number 956-211-8XX**

### Features

- For use in telematic applications
- Requires antenna rod
- Minimum ground plane 300 x 300 mm recommended

### Technical Data

|                   |                       |
|-------------------|-----------------------|
| Dimensions        | 95 mm x 57 mm x 42 mm |
| Weight            | 260 g                 |
| Temperature range | -40°C - +85°C         |
| Protection class  | IP66 (acc. IEC 60529) |
| Tightening torque | max. 5 Nm             |
| Cable type        | ORBCOMM: RG 58        |
|                   | GPS: RG 174           |

Technical Data

| ORBCOMM               |                                   |
|-----------------------|-----------------------------------|
| Frequency range       | 137 - 151 MHz                     |
| Gain                  | typ. 5 dB                         |
| VSWR                  | ≤ 2.0                             |
| Polarization          | Vertical                          |
| Load capacity         | max. 10 W pulsed                  |
| GPS                   |                                   |
| Frequency range       | 1.57542 GHz ±1.023 MHz, (L1-band) |
| Impedance             | 50 Ohm                            |
| Gain                  | min. 2 dBic <sup>1)</sup>         |
| Amplification         | typ. 26 ±3 dB                     |
| Noise figure (50 Ohm) | typ. ≤ 1.4 dB                     |
| Voltage supply        | 3 V - 5.5 V                       |
| Current consumption   | ≤ 13mA at 5 V ±0.1 V              |

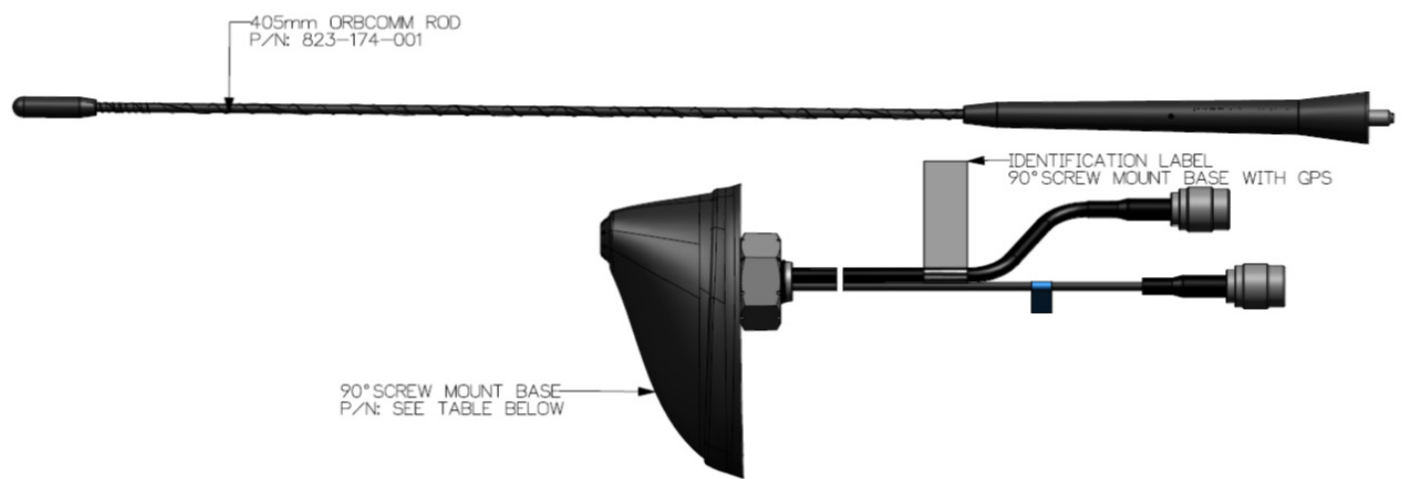
<sup>1)</sup> dBic: referenced to an isotropic radiator, circular polarization

Versions

| PN          | Description     | ORBCOMM        | GPS            |
|-------------|-----------------|----------------|----------------|
| 956-211-804 | OG RD S/FME/0.3 | 320 mm<br>FMEm | 320 mm<br>FMEf |

Customization of cable lengths and connectors possible

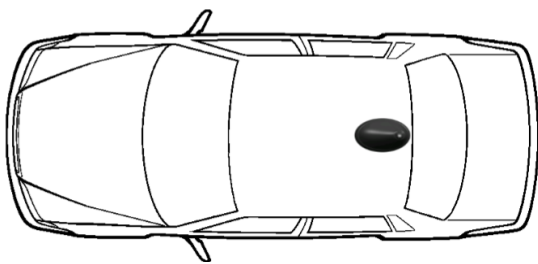
Technical Drawing



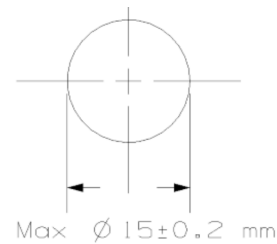
## Installation

- Choose appropriate mounting location on flat surface (see Sketch #1)
- Ensure a minimum 300 x 300mm ground plane
- Max. tolerable mounting material thickness 10 mm
- Safely drill 15 mm mounting hole at desired location (see Sketch #2)
- Clean mounting area with isopropyl alcohol or similar
- Unscrew mounting nut (see Sketch #3)
- Feed all cables through mounting hole
- Slide slotted mounting nut over cables and screw back on to antenna mounting stud
- Maximum tightening torque is 5 Nm

Sketch #1 - Select Mounting Location



Sketch #2—Required Mounting hole



Sketch #3 - Mounting Nut



Sketch #4—Mount in hole



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**[te.com/hirschmann-mobility](https://te.com/hirschmann-mobility)**

**[hirschmann-mobility@te.com](mailto:hirschmann-mobility@te.com)**

**Hirschmann Car Communication GmbH,**  
a TE Connectivity Company  
Stuttgarter Strasse 45-51  
72654 Neckartenzlingen | Germany  
Phone: +49 7127 14-0 | Fax: +49 7127 14-1428

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